



FCC TEST REPORT

Report No: STS1503055F03

Issued for

SACO LLC

2170 NW 87th Ave, Doral Florida, 33172

Product Name:	AFFIX Elite Aquarius
Brand Name:	AFFIX
Model No.:	Aquarius
Series Model:	Elite
FCC ID:	2AEEX-AQUARIUS
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant 5 hame	Applicant's	name	:	SACO	LLC
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Address 2170 NW 87th Ave, Doral Florida, 33172

Manufacture's Name: Shanghai YiXi Technology Co.,LTD

Address: 8F, Modern Logistics Plaza, 102, Rd Qinjiang, Caohengjing

Hi-Tech Park, Shanghai City, 200233, P.R. China

Product description

Product name AFFIX Elite Aquarius

Model and/or type reference : Aquarius

Serial Model: Elite

Standards FCC Part15.247

Test procedure.....: ANSI C63.10-2013

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test....:

Date (s) of performance of tests..... 24 Mar. 2015 ~31 Mar. 2015

Date of Issue: 01 April. 2015

Test Result Pass

Testing Engineer :

(Tony Liu)

Technical Manager:

(Vita Li

Authorized Signatory:

(Bovey Yang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b) (reference KDB 558074 d05 v02. /9.1.2)	Peak Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District,

Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AFFIX Elite Aq	uarius		
Trade Name	AFFIX	AFFIX		
Model Name	Aquarius	Aquarius		
Serial Model	Elite			
Model Difference	Only difference	e in mode name		
Product Description	The EUT is a A Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Antenna Gain (dBi)	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz CCK/OFDM/DBPSK/DAPSK 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/ 117/115.56/104/86.67/78/52/6.5Mbps 802.11b/g/n20: 11CH 802.11n 40: 7CH Please see Note 3. 0 dbi		
Channel List	Please refer to	the Note 2.		
Ratings	DC 3.7V from			
Adapter	Power supply and ADP (rating): Input:100-240V AC,50/60Hz 0.2A Output:5.0V,1A			
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V capacity:1800mAh			
Hardware version number	T8960A_MB_V1.0_VCA1_YUEHU			
Software versioning number				
Connecting I/O Port(s)	Please refer to	the User's Manual		



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

_								
2.	Channel List for 802.11b/g/n(20MHz)							
•	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	01	2412	04	2427	07	2442	10	2457
	02	2417	05	2432	08	2447	11	2462
	03	2422	06	2437	09	2452		

	Channel List for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	80	2447				

3. Table for Filed Antenna

An	t Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	PIFA Antenna	NA	0	N/A



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission				
Final Test Mode	Description			
Mode 5	Link Mode			

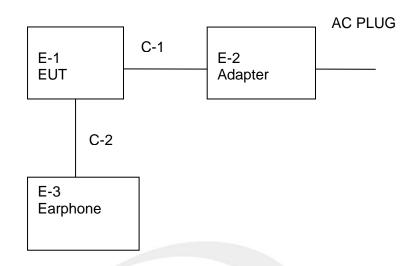
For Radiated Emission				
Final Test Mode Description				
Mode 1	802.11b CH1/ CH6/ CH11			
Mode 2	802.11g CH1/ CH6/ CH11			
Mode 3	802.11n CH1/ CH6/ CH11			
Mode 4	802.11n(40) CH3/ CH6/ CH9			
Mode 5	Link Mode			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AFFIX Elite Aquarius	AFFIX	Aquarius	Elite	EUT
E-2	Notebook	Lenovo	B460	WB03928113	
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.5m	
C-2	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	N/A	R01	N/A	2014.10.25	2015.10.24
High frequency cable	N/A	R02	N/A	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SU HNER	C01	N/A	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

EDEOLIENCY (MHz)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak Average		
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



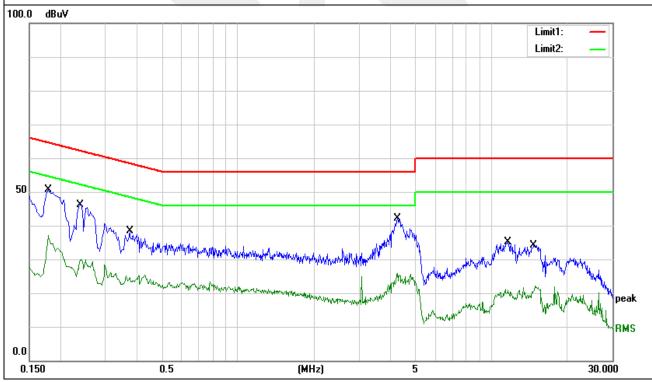
3.1.2 TEST RESULTS

EUT:	AFFIX Elite Aquarius	Model Name. :	AFFIX
Temperature:	23 ℃	Relative Humidity:	50%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter with AC 120V/60Hz	Test Mode:	Link Mode

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1768	36.34	10.00	46.34	64.63	-18.29	QP
2	0.1768	19.48	10.00	29.48	54.63	-25.15	AVG
3	0.2382	31.66	9.96	41.62	62.16	-20.54	QP
4	0.2382	17.35	9.96	27.31	52.16	-24.85	AVG
5	0.3723	22.21	10.12	32.33	58.45	-26.12	QP
6	0.3723	13.47	10.12	23.59	48.45	-24.86	AVG
7	4.2423	24.19	10.19	34.38	56.00	-21.62	QP
8	4.2423	10.26	10.19	20.45	46.00	-25.55	AVG
9	11.5632	18.25	10.37	28.62	60.00	-31.38	QP
10	11.5632	8.88	10.37	19.25	50.00	-30.75	AVG
11	14.6550	17.99	10.31	28.30	60.00	-31.70	QP
12	14.6550	9.80	10.31	20.11	50.00	-29.89	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





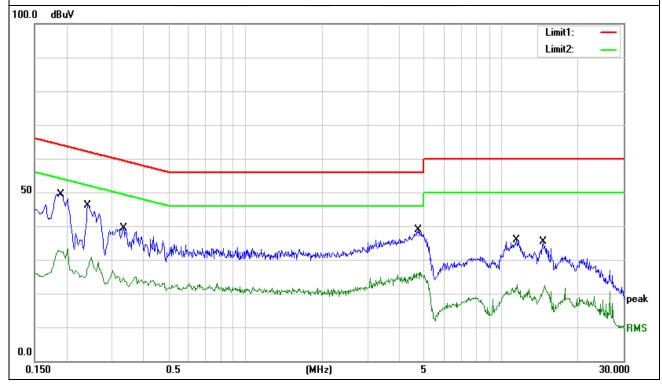


EUT:	AFFIX Elite Aquarius	Model Name. :	AFFIX
Temperature :	23 ℃	Relative Humidity:	50%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter with AC 120V/60Hz	Test Mode:	Link Mode

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1932	35.41	10.00	45.41	63.90	-18.49	QP
2	0.1932	20.40	10.00	30.40	53.90	-23.50	AVG
3	0.2416	31.95	9.96	41.91	62.04	-20.13	QP
4	0.2416	17.31	9.96	27.27	52.04	-24.77	AVG
5	0.3350	22.58	9.93	32.51	59.33	-26.82	QP
6	0.3350	13.25	9.93	23.18	49.33	-26.15	AVG
7	4.7636	22.41	10.20	32.61	56.00	-23.39	QP
8	4.7636	14.25	10.20	24.45	46.00	-21.55	AVG
9	11.3602	19.28	10.30	29.58	60.00	-30.42	QP
10	11.3602	10.09	10.30	20.39	50.00	-29.61	AVG
11	14.4552	16.98	10.30	27.28	60.00	-32.72	QP
12	14.4552	9.50	10.30	19.80	50.00	-30.20	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part 15.247&209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
FREQUENCT (MINZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier harmonic(Peak/AV)	
RB / VB (emission in restricted	1 MH= /1 MH= A\/ 1 MH= /10H=	
band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

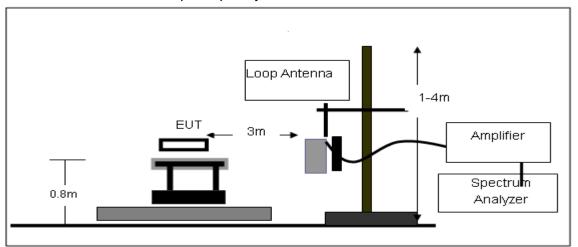
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

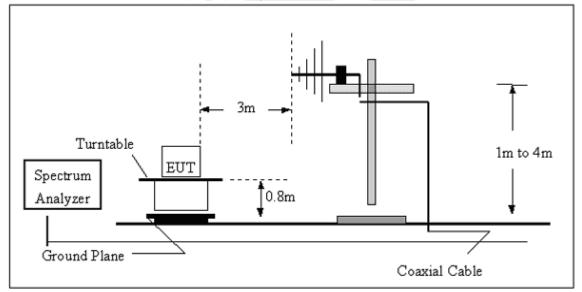


3.2.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

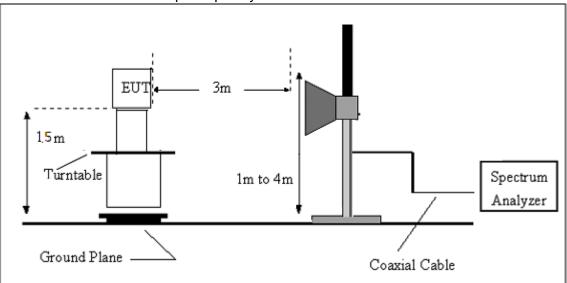


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 TEST RESULT 9KHz-30MHz

EUT:	AFFIX Elite Aquarius	Model Name. :	Aquarius
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIAST VALTADA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode:	Link mode	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



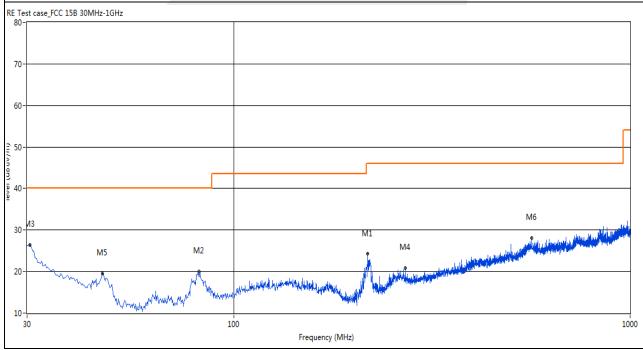


30MHz - 1000MHz

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	11661 (//1113/16 .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization:	Horizontal

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	217.41	24.25	-23.53	46.0	-21.75	QP	235.10	100	Horizontal	PASS
2	81.64	20.04	-25.83	40.0	-19.96	QP	320.30	100	Horizontal	PASS
3	30.48	26.46	-15.54	40.0	-13.54	QP	253.00	100	Horizontal	PASS
4	270.26	20.88	-19.13	46.0	-25.12	QP	177.50	100	Horizontal	PASS
5	46.49	19.60	-23.93	40.0	-20.40	QP	193.90	100	Horizontal	PASS
6	564.09	28.09	-10.55	46.0	-17.91	QP	311.00	100	Horizontal	PASS

Remark:

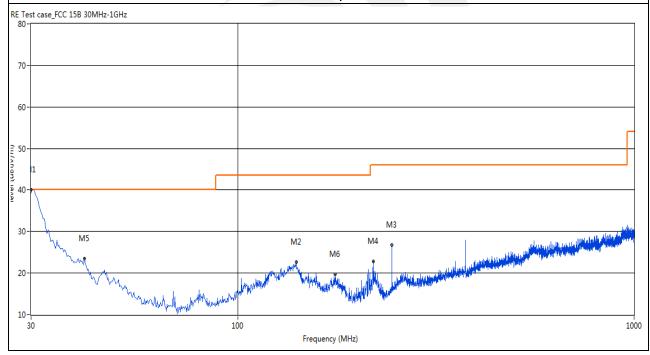




EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization:	Vertical

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.00	35.57	-15.30	40.0	-4.43	QP	0.00	100	Vertical	PASS
2	140.07	22.65	-21.28	43.5	-20.85	QP	254.20	100	Vertical	PASS
3	244.56	26.72	-20.86	46.0	-19.28	QP	175.60	100	Vertical	PASS
4	219.35	22.80	-23.29	46.0	-23.20	QP	175.60	100	Vertical	PASS
5	40.91	23.44	-20.93	40.0	-16.56	QP	236.60	100	Vertical	PASS
6	175.95	19.62	-23.52	43.5	-23.88	QP	236.60	100	Vertical	PASS

Remark:





Above 1000MHz

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TEST VOUSOE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization:	Horizontal

IBμV) 16.63 31.36	(dB) 10.44 10.44	(dBµV/m) 57.07	(dBµV/m) 74	(dB) -16.93	peak
					<u> </u>
1.36	10.44	44.0			
	10.77	41.8	54	-12.2	AVG
3.29	12.39	55.68	74	-18.32	peak
3.67	12.39	46.06	54	-7.94	AVG
	3.67	3.67 12.39	3.67 12.39 46.06	3.67 12.39 46.06 54	3.67 12.39 46.06 54 -7.94

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	mobile phone	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	nest vollage .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.041	49.23	10.39	59.62	74	-14.38	peak
4924.138	33.65	10.39	44.04	54	-9.96	AVG
7386.089	48.67	12.68	61.35	74	-12.65	peak
7386.119	30.63	12.68	43.31	54	-10.69	AVG

Remark:





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.072	49.36	10.39	59.75	74	-14.25	peak
4924.087	33.56	10.39	43.95	54	-10.05	AVG
7386.138	48.57	12.68	61.25	74	-12.75	peak
7386.079	30.28	12.68	42.96	54	-11.04	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa		DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.050	49.36	10.39	59.75	74	-14.25	peak
4924.062	33.27	10.39	43.66	54	-10.34	AVG
7386.054	48.17	12.68	60.85	74	-13.15	peak
7386.083	30.63	12.68	43.31	54	-10.69	AVG

Remark:





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.092	49.43	10.39	59.82	74	-14.18	peak
4924.098	33.43	10.39	43.82	54	-10.18	AVG
7386.112	48.21	12.68	60.89	74	-13.11	peak
7386.094	30.82	12.68	43.5	54	-10.5	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TEST VOUSOE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.069	49.34	10.39	59.73	74	-14.27	peak
4924.098	33.25	10.39	43.64	54	-10.36	AVG
7386.128	48.45	12.68	61.13	74	-12.87	peak
7386.144	30.27	12.68	42.95	54	-11.05	AVG
Remark:						

Remark:





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	11461 (///114/14	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.124	46.24	10.44	56.68	74	-17.32	peak
4824.131	36.47	10.44	46.91	54	-7.09	AVG
7236.090	29.63	12.39	42.02	74	-31.98	peak
7236.037	28.55	12.39	40.94	54	-13.06	AVG
emark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VANIANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.131	46.35	10.44	56.79	74	-17.21	peak
4824.126	36.52	10.44	46.96	54	-7.04	AVG
7236.094	42.65	12.39	55.04	74	-18.96	peak
7236.093	28.89	12.39	41.28	54	-12.72	AVG
	\ \					
Remark:						
		_				





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VANIANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.137	45.56	10.4	55.96	74	-18.04	peak
4874.077	26.47	10.4	36.87	54	-17.13	AVG
7311.120	44.65	12.75	57.4	74	-16.6	peak
7311.105	25.76	12.75	38.51	54	-15.49	AVG
emark:						

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VOITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4874.141	48.24	10.4	58.64	74	-15.36	peak	
4874.115	35.56	10.4	45.96	54	-8.04	AVG	
7311.040	26.58	12.75	39.33	74	-34.67	peak	
7311.116	33.47	12.75	46.22	54	-7.78	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)/2462	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.070	49.35	10.39	59.74	74	-14.26	peak
4924.105	33.68	10.39	44.07	54	-9.93	AVG
7386.122	48.57	12.68	61.25	74	-12.75	peak
7386.126	30.67	12.68	43.35	54	-10.65	AVG
Remark:						
Factor = Antenna Factor + Cable Loss - Pre-amplifier						

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VANIANE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.088	46.67	10.39	57.06	74	-16.94	peak
4924.074	34.27	10.39	44.66	54	-9.34	AVG
7386.122	46.36	12.68	59.04	74	-14.96	peak
7386.097	33.96	12.68	46.64	54	-7.36	AVG
	 					
Remark:						





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.128	46.24	10.44	56.68	74	-17.32	peak
4824.041	36.57	10.44	47.01	54	-6.99	AVG
7236.113	42.38	12.39	54.77	74	-19.23	peak
7236.086	28.26	12.39	40.65	54	-13.35	AVG
Remark:						
Costor - Anto	nna Factor + C	abla Laga D	ro amplifiar			

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HESEVOUAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.101	46.76	10.44	57.2	74	-16.8	peak
4824.119	37.25	10.44	47.69	54	-6.31	AVG
7236.143	51.46	12.39	63.85	74	-10.15	peak
7236.099	31.19	12.39	43.58	54	-10.42	AVG
	- 1					

Remark:



EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TAST VALIANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.142	51.65	10.4	62.05	74	-11.95	peak
4874.107	32.78	10.4	43.18	54	-10.82	AVG
7311.127	48.56	12.75	61.31	74	-12.69	peak
7311.062	27.34	12.75	40.09	54	-13.91	AVG
Pomork:						
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOUZOE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.080	48.56	10.4	58.96	74	-15.04	peak
4874.137	32.68	10.4	43.08	54	-10.92	AVG
7311.128	47.46	12.75	60.21	74	-13.79	peak
7311.125	26.76	12.75	39.51	54	-14.49	AVG
·						

Tomark.





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.092	50.53	10.39	60.92	74	-13.08	peak
4924.096	35.56	10.39	45.95	54	-8.05	AVG
7386.164	43.76	12.68	56.44	74	-17.56	peak
7386.084	31.89	12.68	44.57	54	-9.43	AVG
emark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.051	51.46	10.39	61.85	74	-12.15	peak
4924.080	35.67	10.39	46.06	54	-7.94	AVG
7386.157	42.56	12.68	55.24	74	-18.76	peak
7386.075	28.47	12.68	41.15	54	-12.85	AVG





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAIIAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization:	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
31.76	10.5	42.26	74	-31.74	peak
31.57	10.5	42.07	54	-11.93	AVG
48.79	12.5	61.29	74	-12.71	peak
31.55	12.5	44.05	54	-9.95	AVG
	(dBµV) 31.76 31.57 48.79	(dBµV) (dB) 31.76 10.5 31.57 10.5 48.79 12.5	(dBμV) (dB) (dBμV/m) 31.76 10.5 42.26 31.57 10.5 42.07 48.79 12.5 61.29	(dBμV) (dB) (dBμV/m) (dBμV/m) 31.76 10.5 42.26 74 31.57 10.5 42.07 54 48.79 12.5 61.29 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 31.76 10.5 42.26 74 -31.74 31.57 10.5 42.07 54 -11.93 48.79 12.5 61.29 74 -12.71

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TEST VOUGUE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization:	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
47.57	10.5	58.07	74	-15.93	peak
30.69	10.5	41.19	54	-12.81	AVG
48.98	12.5	61.48	74	-12.52	peak
29.46	12.5	41.96	54	-12.04	AVG
	(dBµV) 47.57 30.69 48.98	(dBμV) (dB) 47.57 10.5 30.69 10.5 48.98 12.5	(dBμV) (dB) (dBμV/m) 47.57 10.5 58.07 30.69 10.5 41.19 48.98 12.5 61.48	(dBμV) (dB) (dBμV/m) (dBμV/m) 47.57 10.5 58.07 74 30.69 10.5 41.19 54 48.98 12.5 61.48 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 47.57 10.5 58.07 74 -15.93 30.69 10.5 41.19 54 -12.81 48.98 12.5 61.48 74 -12.52

Remark:



EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	11461 (///114/14	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.238	48.76	10.4	59.16	74	-14.84	peak
4874.161	33.47	10.4	43.87	54	-10.13	AVG
7311.079	47.32	12.75	60.07	74	-13.93	peak
7311.127	32.76	12.75	45.51	54	-8.49	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOUZOE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.461	47.34	10.4	57.74	74	-16.26	peak
4874.493	34.76	10.4	45.16	54	-8.84	AVG
7311.620	46.89	12.75	59.64	74	-14.36	peak
7311.549	35.27	12.75	48.02	54	-5.98	AVG

Remark:



EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VANIANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.262	49.24	10.29	59.53	74	-14.47	peak
4904.342	35.75	10.29	46.04	54	-7.96	AVG
7356.166	48.24	12.79	61.03	74	-12.97	peak
7356.175	31.57	12.79	44.36	54	-9.64	AVG
Remark:						

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4904.114	50.42	10.29	60.71	74	-13.29	peak	
4904.087	34.47	10.29	44.76	54	-9.24	AVG	
7356.343	48.68	12.79	61.47	74	-12.53	peak	
7356.325	32.17	12.79	44.96	54	-9.04	AVG	
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

3.2.6 TEST RESULTS (BAND EDGE)

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOUZOE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

BμV) 0.41	(dB) -13	(dBµV/m)	(dBµV/m)	(dB)	Value Type
0.41	12		· · · /	(GD)	
	-13	67.41	74	-6.59	peak
1.57	-13	48.57	54	-5.54	AVG
2.39	-12.99	69.4	74	-4.41	peak
1.26	-12.99	48.27	54	-5.74	AVG
	2.39	2.39 -12.99 1.26 -12.99	2.39 -12.99 69.4	2.39 -12.99 69.4 74 1.26 -12.99 48.27 54	2.39 -12.99 69.4 74 -4.41 1.26 -12.99 48.27 54 -5.74

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz

16	est Mode .	CH1(802.1	ib iviode)	Polariza	ation :	verticai	
						•	
		\ \					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
	(B.41.1.)	(10.10	(15)	(10.)((.)	(15.)((.)	(ID)	value Type

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2399.900	81.37	-13	68.37	74	-5.63	peak	
2399.900	61.96	-13	48.96	54	-5.04	AVG	
2400.000	78.57	-12.99	65.58	74	-8.42	peak	
2400.000	59.62	-12.99	46.63	54	-7.37	AVG	
Remark:	IIII !emark:						





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VANIANA .	DC 5V from Adapter with AC120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.500	78.34	-12.78	65.56	74	-8.44	peak
2483.500	60.47	-12.78	47.69	54	-6.31	AVG
2483.600	79.68	-12.77	66.91	74	-7.09	peak
2483.600	60.76	-12.78	47.98	54	-6.02	AVG
emark:						

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOHAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
2483.500	77.57	-12.78	64.79	74	-9.21	peak			
2483.500	60.27	-12.78	47.49	54	-6.51	AVG			
2483.600	60.38	-12.77	47.61	74	-26.39	peak			
2483.600	59.47	-12.77	46.7	54	-7.3	AVG			
Remark:									
Factor = Antenna Factor + Cable Loss – Pre-amplifier.									





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TAST VALIANA .	DC 5V from Adapter with AC120V/60Hz
Test Mode :	CH1(802.11g Mode)	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type			
2399.900	76.57	-13	63.57	74	-10.43	peak			
2399.900	59.47	-13	46.47	54	-7.53	AVG			
2400.000	78.65	-12.99	65.66	74	-8.34	peak			
2400.000	58.63	-12.99	45.64	54	-8.36	AVG			
Remark:									
Factor = Antenna Factor + Cable Loss – Pre-amplifier.									

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
2399.900	77.24	-13	64.24	74	-9.76	peak			
2399.900	60.36	-13	47.36	54	-6.64	AVG			
2400.000	78.96	-12.99	65.97	74	-8.03	peak			
2400.000	62.67	-12.99	49.68	54	-4.32	AVG			
Remark:									
Factor = Antenna Factor + Cable Loss – Pre-amplifier.									





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	11461 (///113/14	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization:	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
77.67	-12.78	64.89	74	-9.11	peak
63.69	-12.78	50.91	54	-3.09	AVG
76.62	-12.77	63.85	74	-10.15	peak
61.37	-12.77	48.6	54	-5.4	AVG
	(dBµV) 77.67 63.69 76.62	(dBµV) (dB) 77.67 -12.78 63.69 -12.78 76.62 -12.77	(dBμV) (dB) (dBμV/m) 77.67 -12.78 64.89 63.69 -12.78 50.91 76.62 -12.77 63.85	(dBμV) (dB) (dBμV/m) (dBμV/m) 77.67 -12.78 64.89 74 63.69 -12.78 50.91 54 76.62 -12.77 63.85 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 77.67 -12.78 64.89 74 -9.11 63.69 -12.78 50.91 54 -3.09 76.62 -12.77 63.85 74 -10.15

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with

Test Mode : CH11(802.11g Mode) Polarization : Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.500	76.56	-12.78	63.78	74	-10.22	peak
2483.500	60.87	-12.78	48.09	54	-5.91	AVG
2483.600	75.34	-12.77	62.57	74	-11.43	peak
2483.600	61.67	-12.77	48.9	54	-5.1	AVG





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	76.57	-13	63.57	74	-10.43	peak
2399.900	58.69	-13	45.69	54	-8.31	AVG
2400.000	78.62	-12.99	65.63	74	-8.37	peak
2400.000	58.64	-12.99	45.65	54	-8.35	AVG
emark:						
emark.						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20M	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	$(dB\mu V/m)$	(dB)	value Type
2399.900	77.57	-13	64.57	74	-9.43	peak
2399.900	58.38	-13	45.38	54	-8.62	AVG
2400.000	76.67	-12.99	63.68	74	-10.32	peak
2400.000	56.32	-12.99	43.33	54	-10.67	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2483.500	77.67	-12.78	64.89	74	-9.11	peak	
2483.500	56.96	-12.78	44.18	54	-9.82	AVG	
2483.600	75.64	-12.77	62.87	74	-11.13	peak	
2483.600	57.37	-12.77	44.6	54	-9.4	AVG	
Remark:							
	enna Factor + (Cahle I oss -	. Pre-amplifier				

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest vollage .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

(BμV) (3.46 (9.76 (3.57	(dB) -12.78 -12.78	(dBµV/m) 60.45 46.84	(dBµV/m) 74 54	(dB) -13.55 -7.16	Peak AVG
9.76	-12.78				'
		46.84	54	-7.16	AVG
3 57					
5.51	-12.78	60.45	74	-13.55	peak
9.67	-12.78	46.84	54	-7.16	AVG
					+
	9.67	9.67 -12.78	9.67 -12.78 46.84	9.67 -12.78 46.84 54	9.67 -12.78 46.84 54 -7.16

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type		
2399.900	77.57	-13	64.57	74	-9.43	peak		
2399.900	58.34	-13	45.34	54	-8.66	AVG		
2400.000	77.57	-12.99	64.58	74	-9.42	peak		
2400.000	59.67	-12.99	46.68	54	-7.32	AVG		
Remark:								
actor = Ant	enna Factor + (Cable Loss -	- Pre-amplifier.					

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest vollage .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	80.57	-13	67.57	74	-6.43	peak
2399.900	55.59	-13	42.59	54	-11.41	AVG
2400.000	78.92	-12.99	65.93	74	-8.07	peak
2400.000	55.67	-12.99	42.68	54	-11.32	AVG
Remark:						
	enna Factor + (Cable Loss –	Pre-amplifier.			





EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	76.34	-12.78	63.56	74	-10.44	peak
2483.500	59.19	-12.78	46.41	54	-7.59	AVG
2483.600	77.27	-12.77	64.5	74	-9.5	peak
2483.600	61.67	-12.77	48.9	54	-5.1	AVG
emark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOUACE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

		Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
77.57	-12.78	64.79	74	-9.21	peak
60.46	-12.78	47.68	54	-6.32	AVG
78.87	-12.78	66.09	74	-7.91	peak
59.67	-12.78	46.89	54	-7.11	AVG
	77.57 60.46 78.87	77.57 -12.78 60.46 -12.78 78.87 -12.78	77.57 -12.78 64.79 60.46 -12.78 47.68 78.87 -12.78 66.09	77.57 -12.78 64.79 74 60.46 -12.78 47.68 54 78.87 -12.78 66.09 74	77.57 -12.78 64.79 74 -9.21 60.46 -12.78 47.68 54 -6.32 78.87 -12.78 66.09 74 -7.91

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. CONDUCTED SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2 TEST PROCEDURE

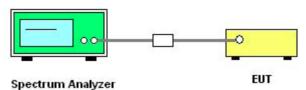
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Stort/Ston Fraguency	Lower Band Edge: 2300 to 2430 MHz	
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



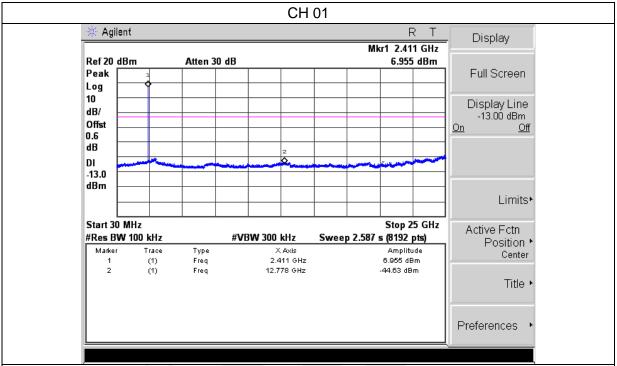
The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS



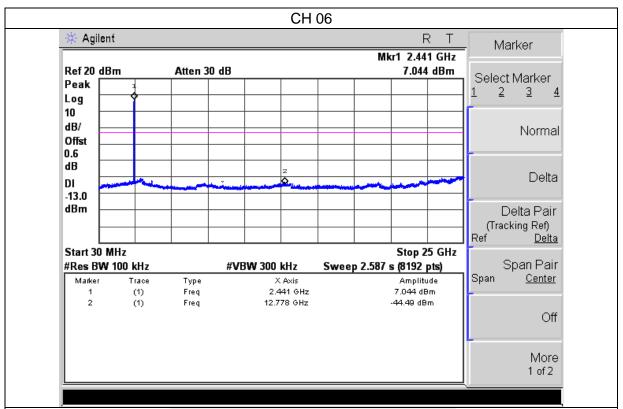
4.6 TEST RESULTS

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	HASI VAIIAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

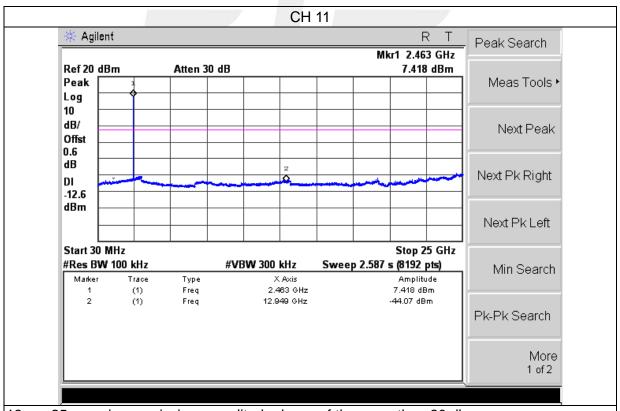


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.





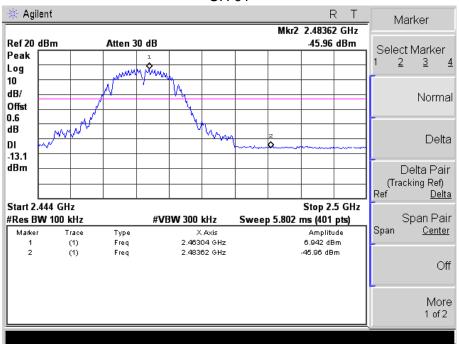
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



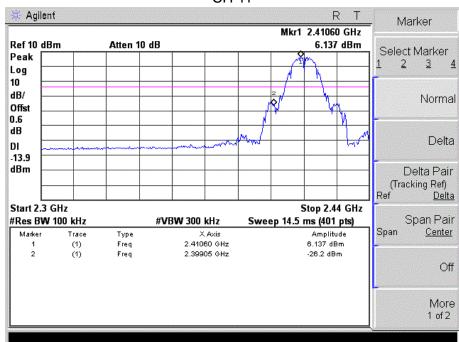
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



Band edge CH 01

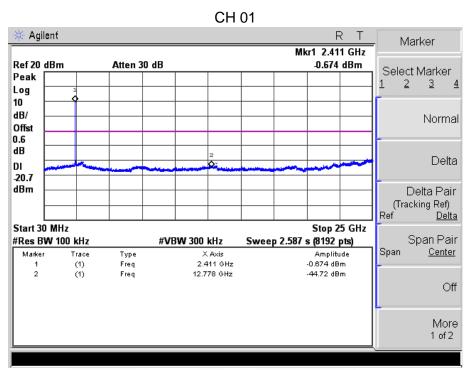






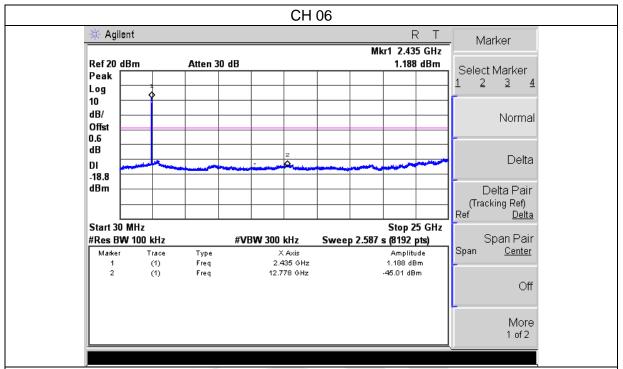


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX g Mode /CH01, CH06, CH11			

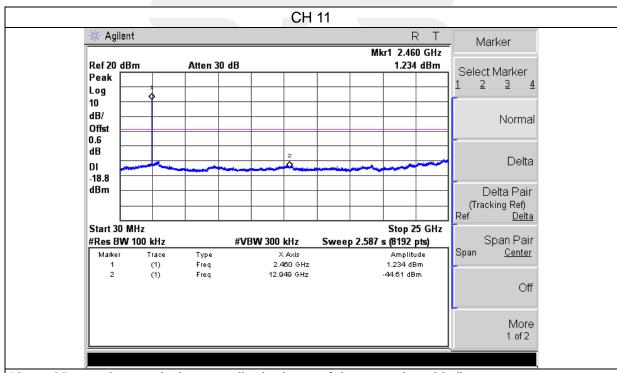


13~g-25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.





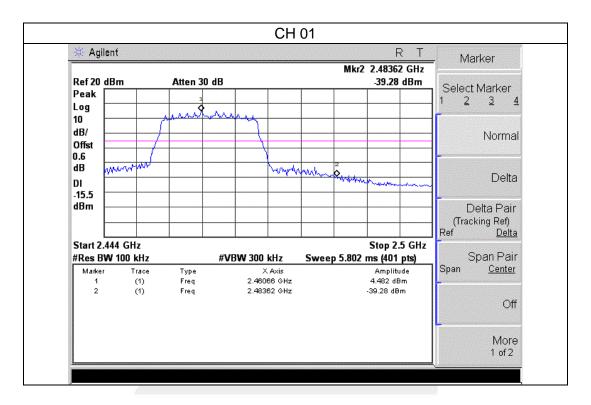
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

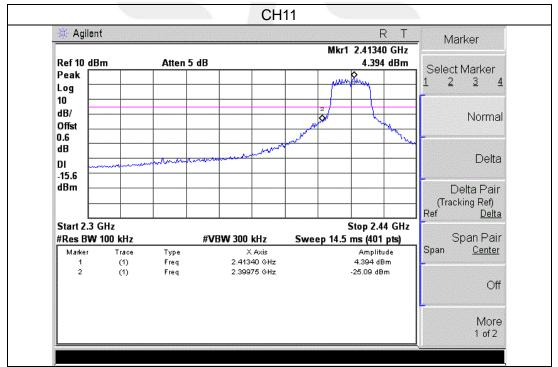


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



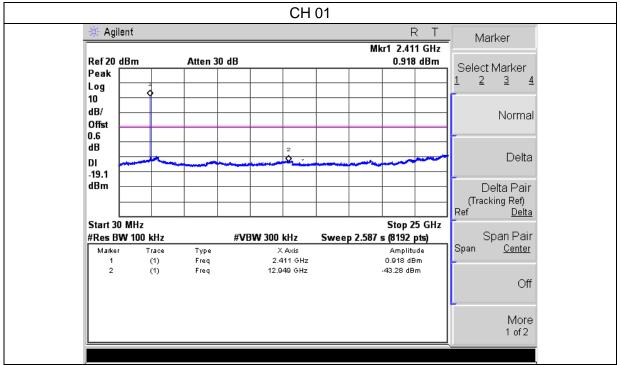
Band edge





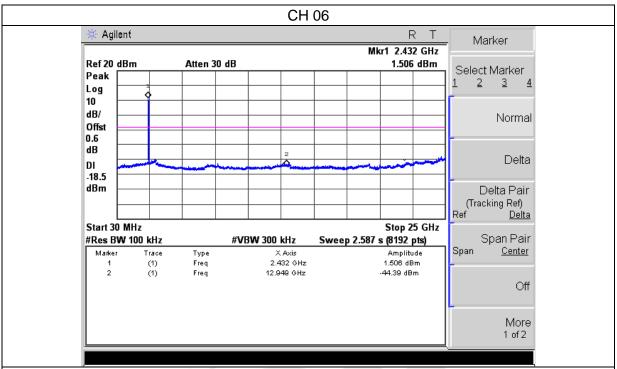


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	11461 (///113/14	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

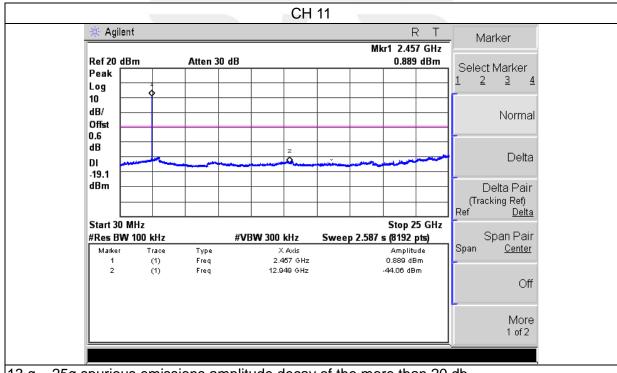


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.





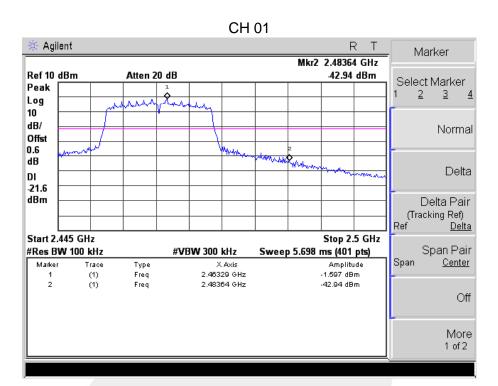
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

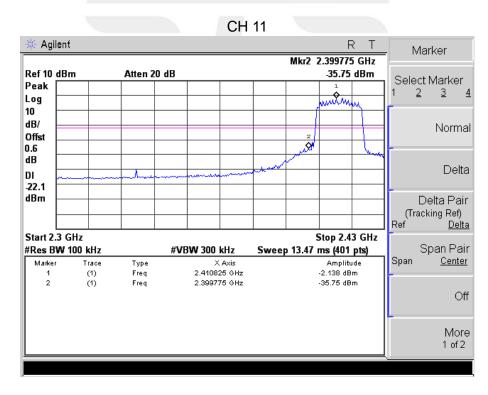


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



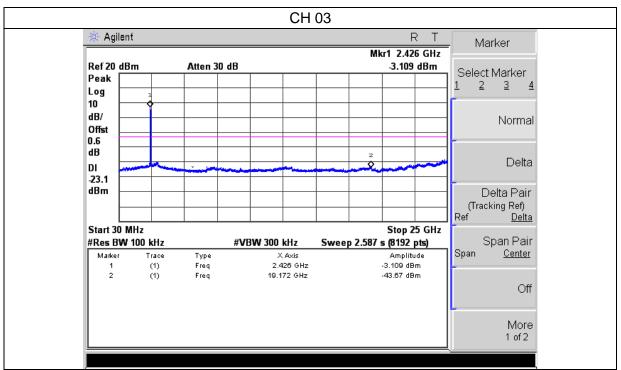
Band edge





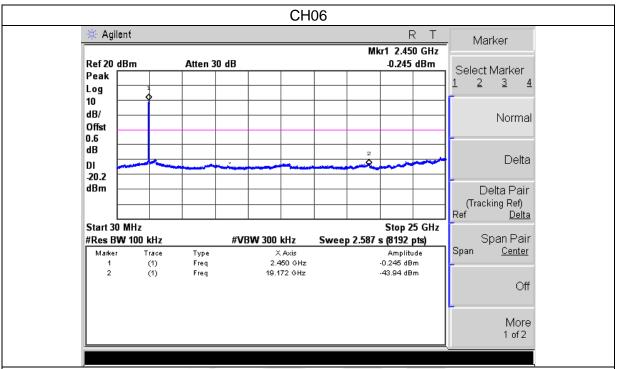


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	TIEST VANIAAE .	DC 5V from Adapter with AC 120V/60Hz	
Test Mode :	st Mode : TX n Mode(40M) /CH03, CH06, CH09			

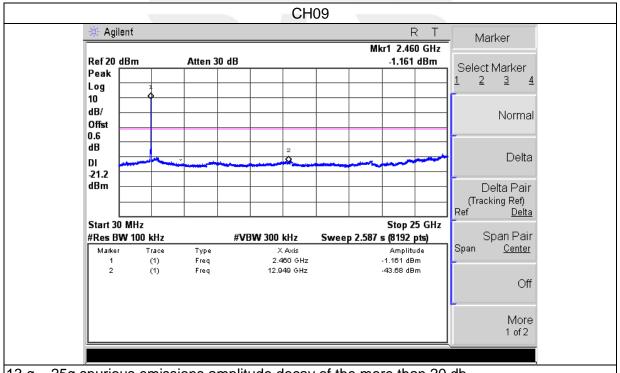


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.





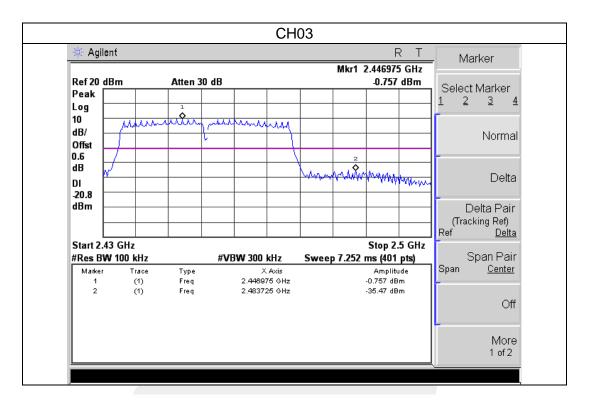
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

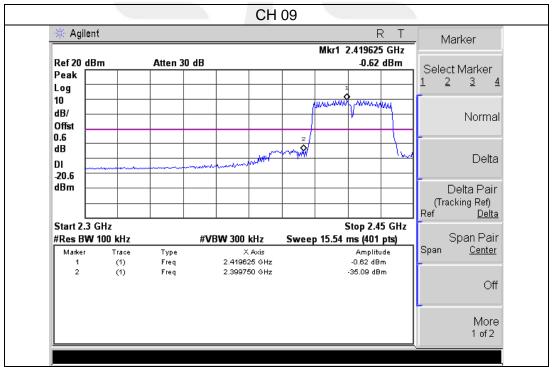


13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



Band edge







5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

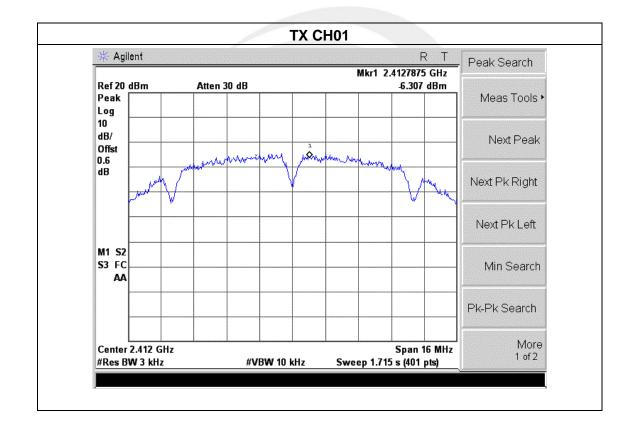
5.5 EUT OPERATION CONDITIONS



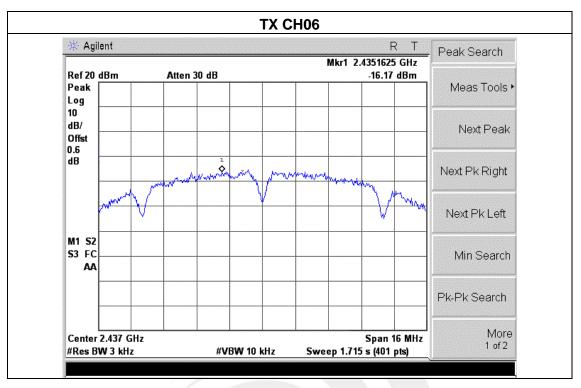
5.6 TEST RESULTS

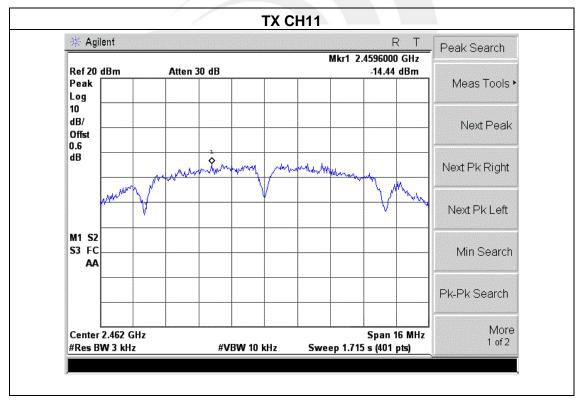
EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX b Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-6.31	8	PASS
2437 MHz	-16.17	8	PASS
2462 MHz	-14.44	8	PASS







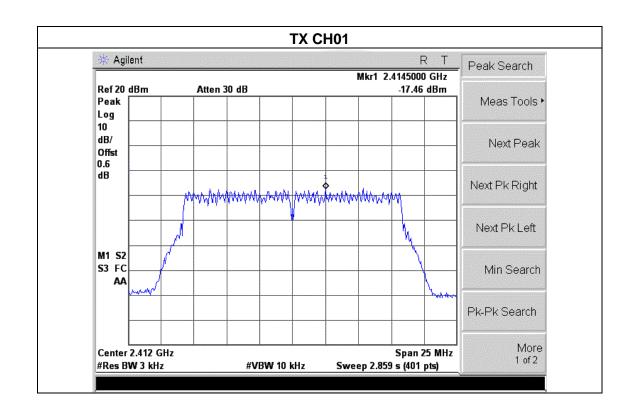




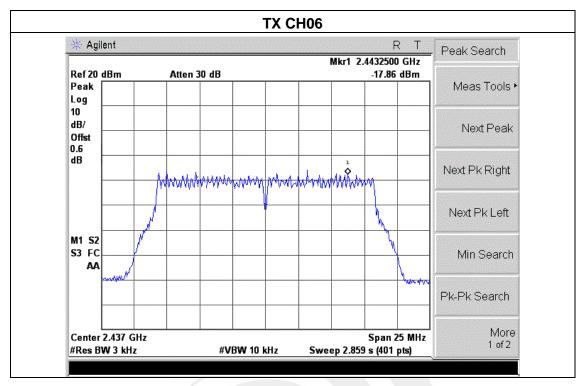


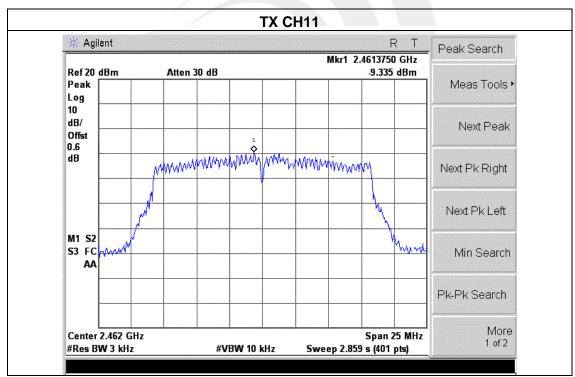
EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC120V/60Hz
Test Mode : TX g Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-17.46	8	PASS
2437 MHz	-17.86	8	PASS
2462 MHz	-9.34	8	PASS





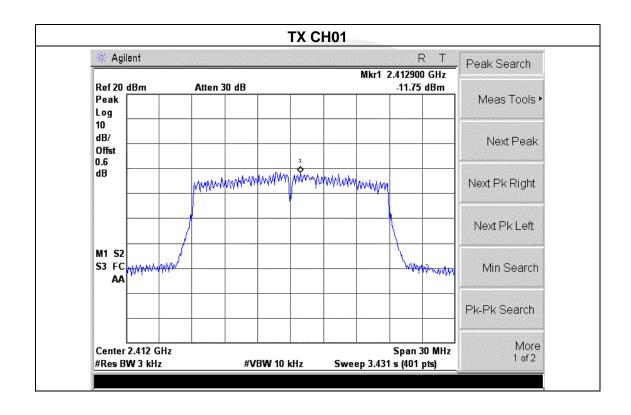




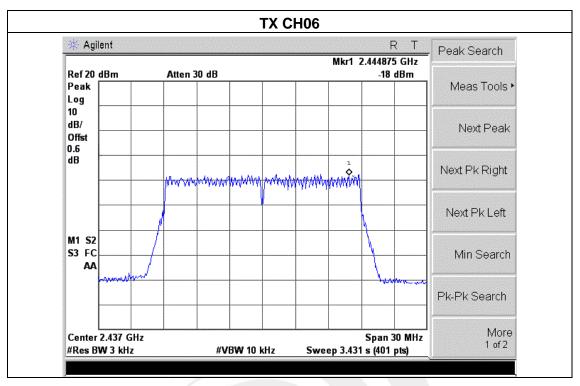


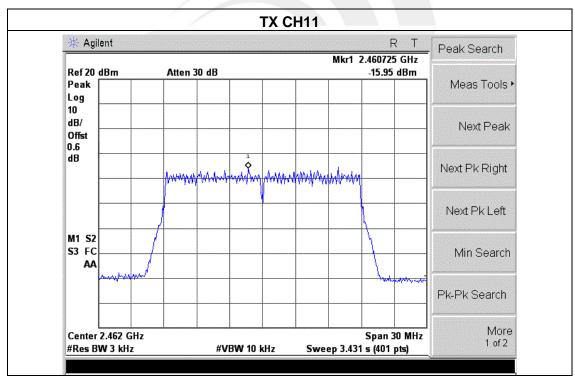
EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.75	8	PASS
2437 MHz	-2.44	8	PASS
2462 MHz	-15.95	8	PASS







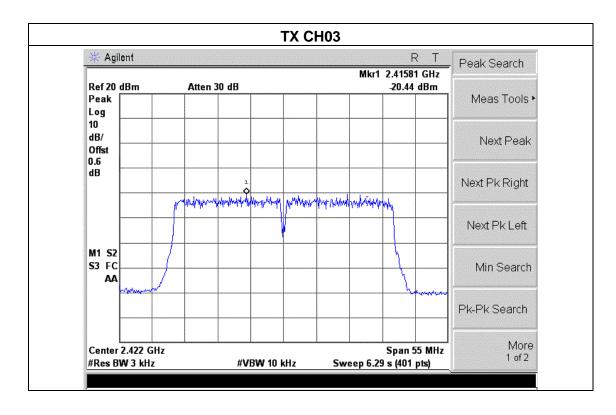




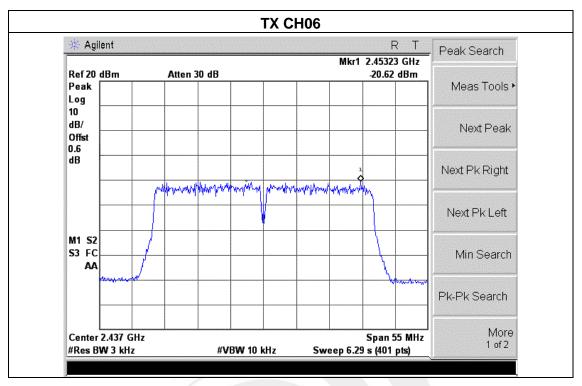


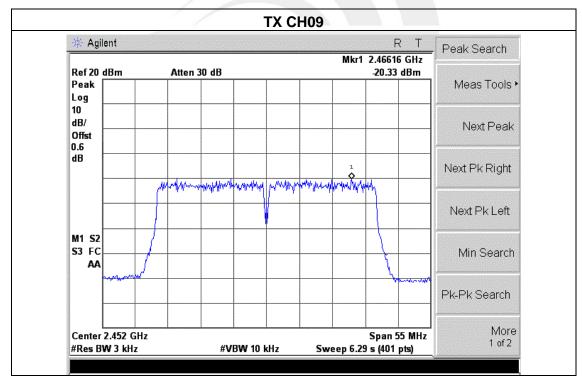
EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-20.44	8	PASS
2437 MHz	-20.62	8	PASS
2452 MHz	-20.33	8	PASS











6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 ′ RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 d B relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

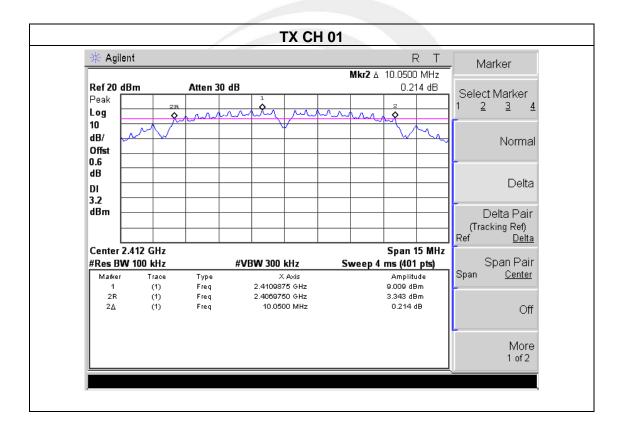
6.5 EUT OPERATION CONDITIONS



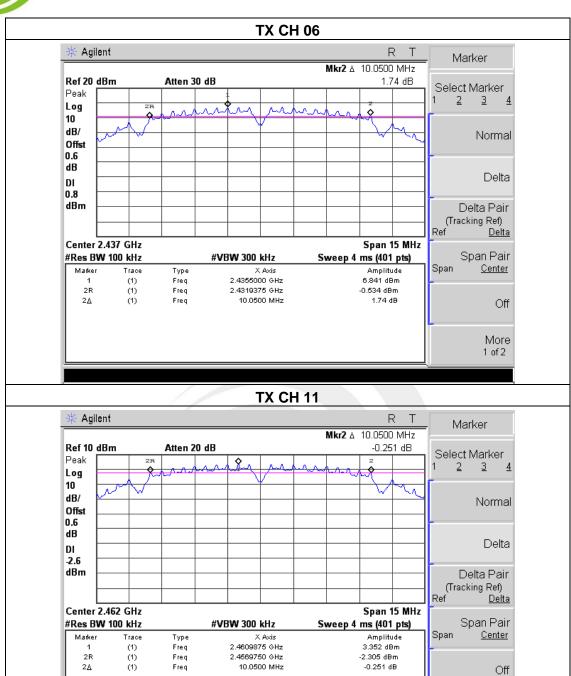
6.6 TEST RESULTS

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX b Mode /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.0500	>=500KHz	PASS
2437 MHz	10.0500	>=500KHz	PASS
2462 MHz	10.0500	>=500KHz	PASS





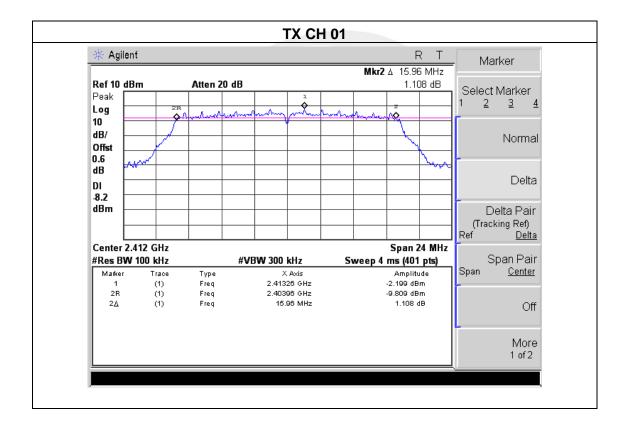


More 1 of 2

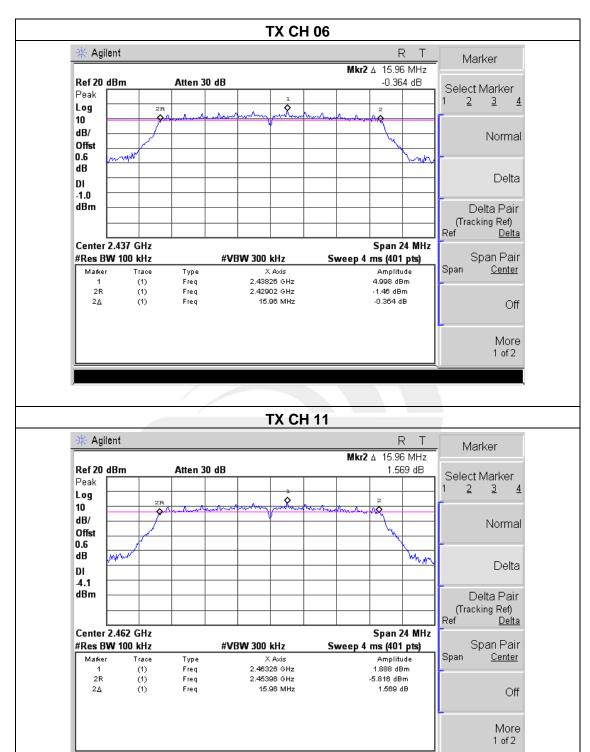


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIAST VOITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	15.9600	>=500KHz	PASS
2437 MHz	15.9600	>=500KHz	PASS
2462 MHz	15.9600	>=500KHz	PASS





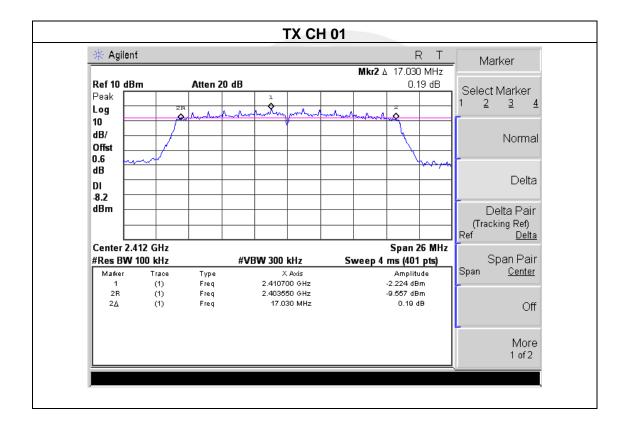




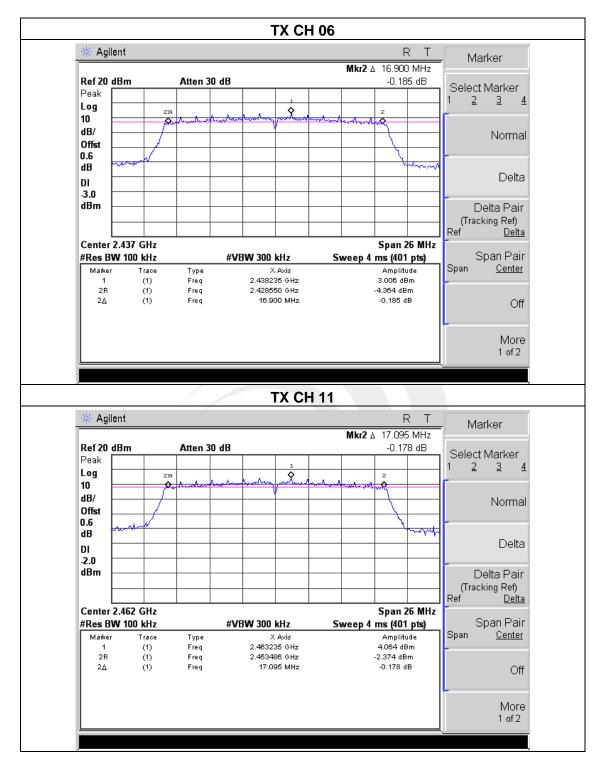


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	st Mode : TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.030	>=500KHz	PASS
2437 MHz	16.900	>=500KHz	PASS
2462 MHz	17.095	>=500KHz	PASS



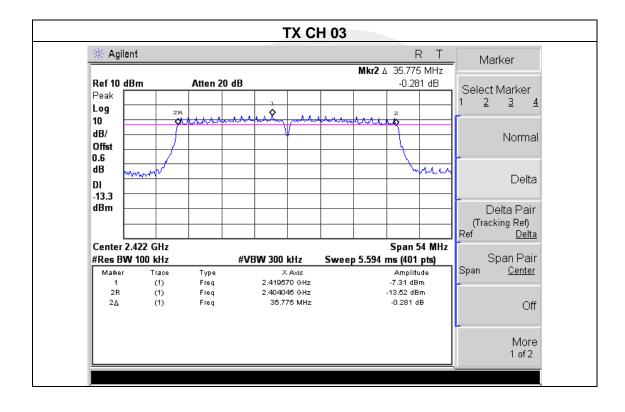




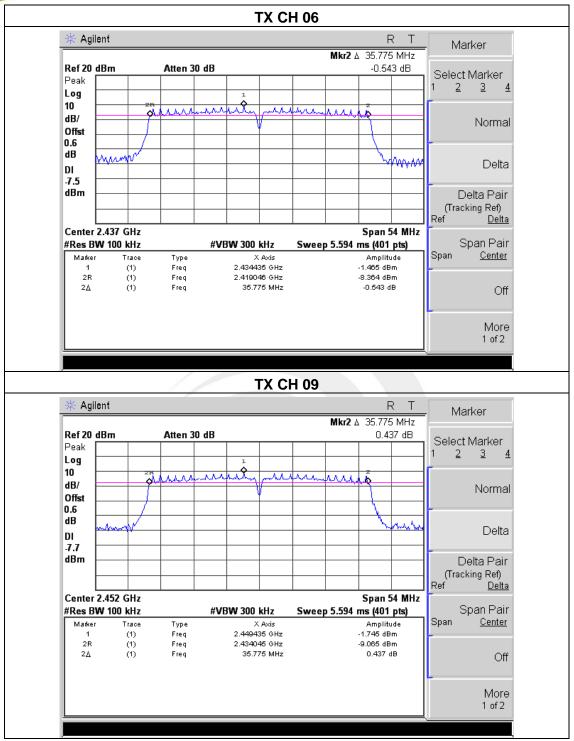


EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIAST VAITANA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Mode : TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.7750	>=500KHz	PASS
2437 MHz	35.7750	>=500KHz	PASS
2452 MHz	35.7750	>=500KHz	PASS











7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power Meter
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7.4 EUT OPERATION CONDITIONS





7.5 TEST RESULTS

EUT:	AFFIX Elite Aquarius	Model Name :	Aquarius
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	HESEVOUAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b/g/n Mode		

TX 802.11b Mode				
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	14.31	30	
CH06	2437	14.94	30	
CH11	2462	14.37	30	

TX 802.11g Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	12.46	30
CH06	2437	12.12	30
CH11	2462	12.51	30

TX 802.11n20 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	12.33	30
CH06	2437	12.28	30
CH11	2462	12.11	30

TX 802.11n40 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH03	2422	10.63	30
CH06	2437	10.86	30
CH09	2452	11.22	30



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

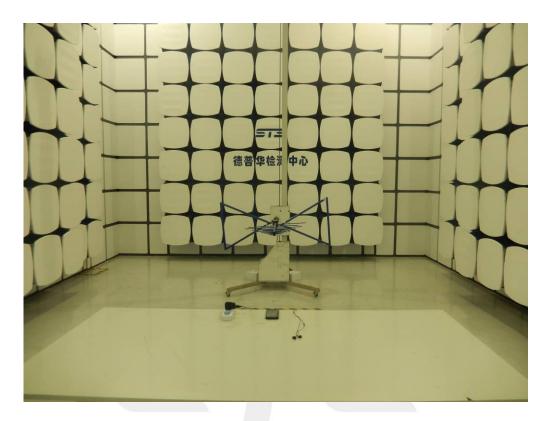
The EUT antenna is permanent attached antenna. It comply with the standard requirement.

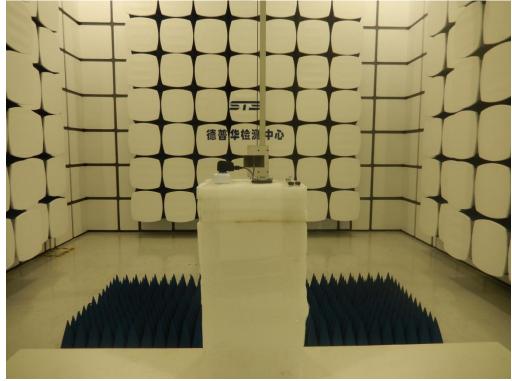




APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos

